

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/530,843
Source: Pg 1/10
Date Processed by STIC: 4/19/05

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

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- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 4.2.2 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/24/05



PCT

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/530,843

DATE: 04/19/2005

TIME: 08:47:01

Input Set : A:\Co10217se.APP

Output Set: N:\CRF4\04192005\J530843.raw

Use English
in a
U.S.
application

3 <110> APPLICANT: Consortium fuer elektrochemische Industrie GmbH
 5 <120> TITLE OF INVENTION: Feedback-resistente Homoserin-Transsuccinylasen
 7 <130> FILE REFERENCE: CO-P#####
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/530,843
 C--> 10 <141> CURRENT FILING DATE: 2005-04-08
 12 <160> NUMBER OF SEQ ID NOS: 12
 14 <170> SOFTWARE: PatentIn Ver. 2.0
 16 <210> SEQ ID NO: 1
 17 <211> LENGTH: 930
 18 <212> TYPE: DNA
 19 <213> ORGANISM: Escherichia coli
 21 <220> FEATURE:
 22 <221> NAME/KEY: CDS
 23 <222> LOCATION: (1)..(930)
 25 <300> PUBLICATION INFORMATION:
 26 <301> AUTHORS: Blattner, F. R.
 27 <302> TITLE: The complete genome sequence of Escherichia coli K-12.
 28 <303> JOURNAL: Science
 29 <304> VOLUME: 277
 30 <305> ISSUE: 5331
 31 <306> PAGES: 1453-1474
 32 <307> DATE: 1997
 34 <400> SEQUENCE: 1
 35 atg ccg att cgt gtg ccg gac gag cta ccc gcc gtc aat ttc ttg cgt 48
 36 Met Pro Ile Arg Val Pro Asp Glu Leu Pro Ala Val Asn Phe Leu Arg
 37 1 5 10 15
 39 gaa gaa aac gtc ttt gtg atg aca act tct cgt gcg tct ggt cag gaa 96
 40 Glu Glu Asn Val Phe Val Met Thr Ser Arg Ala Ser Gly Gln Glu
 41 20 25 30
 43 att cgt cca ctt aag gtt ctg atc ctt aac ctg atg ccg aag aag att 144
 44 Ile Arg Pro Leu Lys Val Leu Ile Leu Asn Leu Met Pro Lys Lys Ile
 45 35 40 45
 47 gaa act gaa aat cag ttt ctg cgc ctg ctt tca aac tca cct ttg cag 192
 48 Glu Thr Glu Asn Gln Phe Leu Arg Leu Leu Ser Asn Ser Pro Leu Gln
 49 50 55 60
 51 gtc gat att cag ctg ttg cgc atc gat tcc cgt gaa tcg cgc aac acg 240
 52 Val Asp Ile Gln Leu Leu Arg Ile Asp Ser Arg Glu Ser Arg Asn Thr
 53 65 70 75 80
 55 ccc gca gag cat ctg aac aac ttc tac tgt aac ttt gaa gat att cag 288
 56 Pro Ala Glu His Leu Asn Asn Phe Tyr Cys Asn Phe Glu Asp Ile Gln
 57 85 90 95
 59 gat cag aac ttt gac ggt ttg att gta act ggt gcg ccg ctg ggc ctg 336
 60 Asp Gln Asn Phe Asp Gly Leu Ile Val Thr Gly Ala Pro Leu Gly Leu

Does Not Comply
Corrected Diskette Needed

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RAW SEQUENCE LISTING

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Input Set : A:\Co10217se.APP

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```

61          100          105          110
63 gtg gag ttt aat gat gtc gct tac tgg ccg cag atc aaa cag gtg ctg 384
64 Val Glu Phe Asn Asp Val Ala Tyr Trp Pro Gln Ile Lys Gln Val Leu
65          115          120          125
67 gag tgg tcg aaa gat cac gtc acc tcg acg ctg ttt gtc tgc tgg gcg 432
68 Glu Trp Ser Lys Asp His Val Thr Ser Thr Leu Phe Val Cys Trp Ala
69          130          135          140
71 gta cag gcc gcg ctc aat atc ctc tac ggc att cct aag caa act cgc 480
72 Val Gln Ala Ala Leu Asn Ile Leu Tyr Gly Ile Pro Lys Gln Thr Arg
73 145          150          155          160
75 acc gaa aaa ctc tct ggc gtt tac gag cat cat att ctc cat cct cat 528
76 Thr Glu Lys Leu Ser Gly Val Tyr Glu His His Ile Leu His Pro His
77          165          170          175
79 gcg ctt ctg acg cgt ggc ttt gat gat tca ttc ctg gca ccg cat tcg 576
80 Ala Leu Leu Thr Arg Gly Phe Asp Asp Ser Phe Leu Ala Pro His Ser
81          180          185          190
83 cgc tat gct gac ttt ccg gca gcg ttg att cgt gat tac acc gat ctg 624
84 Arg Tyr Ala Asp Phe Pro Ala Ala Leu Ile Arg Asp Tyr Thr Asp Leu
85          195          200          205
87 gaa att ctg gca gag acg gaa gaa ggg gat gca tat ctg ttt gcc agt 672
88 Glu Ile Leu Ala Glu Thr Glu Glu Gly Asp Ala Tyr Leu Phe Ala Ser
89          210          215          220
91 aaa gat aag cgc att gcc ttt gtg acg ggc cat ccc gaa tat gat gcg 720
92 Lys Asp Lys Arg Ile Ala Phe Val Thr Gly His Pro Glu Tyr Asp Ala
93 225          230          235          240
95 caa acg ctg gcg cag gaa ttt ttc cgc gat gtg gaa gcc gga cta gac 768
96 Gln Thr Leu Ala Gln Glu Phe Phe Arg Asp Val Glu Ala Gly Leu Asp
97          245          250          255
99 ccg gat gta ccg tat aac tat ttc ccg cac aat gat ccg caa aat aca 816
100 Pro Asp Val Pro Tyr Asn Tyr Phe Pro His Asn Asp Pro Gln Asn Thr
101          260          265          270
103 ccg cga gcg agc tgg cgt agt cac ggt aat tta ctg ttt acc aac tgg 864
104 Pro Arg Ala Ser Trp Arg Ser His Gly Asn Leu Leu Phe Thr Asn Trp
105          275          280          285
107 ctc aac tat tac gtc tac cag atc acg cca tac gat cta cgg cac atg 912
108 Leu Asn Tyr Tyr Val Tyr Gln Ile Thr Pro Tyr Asp Leu Arg His Met
109          290          295          300
111 aat cca acg ctg gat taa
112 Asn Pro Thr Leu Asp
113 305
116 <210> SEQ ID NO: 2
117 <211> LENGTH: 309
118 <212> TYPE: PRT
119 <213> ORGANISM: Escherichia coli
121 <400> SEQUENCE: 2
122 Met Pro Ile Arg Val Pro Asp Glu Leu Pro Ala Val Asn Phe Leu Arg
123 1          5          10          15
125 Glu Glu Asn Val Phe Val Met Thr Thr Ser Arg Ala Ser Gly Gln Glu
126          20          25          30

```

W--> 113 305 (310) delete, since no amino acid is shown

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/530,843

DATE: 04/19/2005

TIME: 08:47:01

Input Set : A:\Co10217se.APP

Output Set: N:\CRF4\04192005\J530843.raw

```

128 Ile Arg Pro Leu Lys Val Leu Ile Leu Asn Leu Met Pro Lys Lys Ile
129           35                     40                     45
131 Glu Thr Glu Asn Gln Phe Leu Arg Leu Leu Ser Asn Ser Pro Leu Gln
132           50                     55                     60
134 Val Asp Ile Gln Leu Leu Arg Ile Asp Ser Arg Glu Ser Arg Asn Thr
135           65                     70                     75                     80
137 Pro Ala Glu His Leu Asn Asn Phe Tyr Cys Asn Phe Glu Asp Ile Gln
138                               85                     90                     95
140 Asp Gln Asn Phe Asp Gly Leu Ile Val Thr Gly Ala Pro Leu Gly Leu
141                               100                    105                    110
143 Val Glu Phe Asn Asp Val Ala Tyr Trp Pro Gln Ile Lys Gln Val Leu
144                               115                    120                    125
146 Glu Trp Ser Lys Asp His Val Thr Ser Thr Leu Phe Val Cys Trp Ala
147           130                     135                     140
149 Val Gln Ala Ala Leu Asn Ile Leu Tyr Gly Ile Pro Lys Gln Thr Arg
150 145                     150                     155                     160
152 Thr Glu Lys Leu Ser Gly Val Tyr Glu His His Ile Leu His Pro His
153           165                     170                     175
155 Ala Leu Leu Thr Arg Gly Phe Asp Asp Ser Phe Leu Ala Pro His Ser
156           180                     185                     190
158 Arg Tyr Ala Asp Phe Pro Ala Ala Leu Ile Arg Asp Tyr Thr Asp Leu
159           195                     200                     205
161 Glu Ile Leu Ala Glu Thr Glu Glu Gly Asp Ala Tyr Leu Phe Ala Ser
162           210                     215                     220
164 Lys Asp Lys Arg Ile Ala Phe Val Thr Gly His Pro Glu Tyr Asp Ala
165 225                     230                     235                     240
167 Gln Thr Leu Ala Gln Glu Phe Phe Arg Asp Val Glu Ala Gly Leu Asp
168           245                     250                     255
170 Pro Asp Val Pro Tyr Asn Tyr Phe Pro His Asn Asp Pro Gln Asn Thr
171           260                     265                     270
173 Pro Arg Ala Ser Trp Arg Ser His Gly Asn Leu Leu Phe Thr Asn Trp
174           275                     280                     285
176 Leu Asn Tyr Tyr Val Tyr Gln Ile Thr Pro Tyr Asp Leu Arg His Met
177           290                     295                     300
179 Asn Pro Thr Leu Asp
180 305

```

183 <210> SEQ ID NO: 3

184 <211> LENGTH: 30

185 <212> TYPE: DNA

186 <213> ORGANISM: Artificial Sequence

188 <220> FEATURE:

189 <223> OTHER INFORMATION: Description of Artificial Sequence:

190 Oligonukleotid MetaFw192 <400> SEQUENCE: 3 *use English*

193 gatcccatgg ctcttttag tcattcttat

30

196 <210> SEQ ID NO: 4

197 <211> LENGTH: 36

198 <212> TYPE: DNA

199 <213> ORGANISM: Artificial Sequence

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/10/530,843

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 TIME: 08:47:01

Input Set : A:\Co10217se.APP
 Output Set: N:\CRF4\04192005\J530843.raw

use English

201 <220> FEATURE:
 202 <223> OTHER INFORMATION: Description of Artificial Sequence: Oligonukleotid
 203 metArev
 205 <400> SEQUENCE: 4
 206 gatcgagctc agtactatta atccagcggt ggattc 36
 209 <210> SEQ ID NO: 5
 210 <211> LENGTH: 33
 211 <212> TYPE: DNA
 212 <213> ORGANISM: Artificial Sequence
 214 <220> FEATURE:
 215 <223> OTHER INFORMATION: Description of Artificial Sequence: Oligonukleotid
 216 GAPDHfw
 218 <400> SEQUENCE: 5
 219 gtcgacgcgt gaggcgagtc agtcgcgtaa tgc 33
 222 <210> SEQ ID NO: 6
 223 <211> LENGTH: 42
 224 <212> TYPE: DNA
 225 <213> ORGANISM: Artificial Sequence
 227 <220> FEATURE:
 228 <223> OTHER INFORMATION: Description of Artificial Sequence: Oligonukleotid
 229 GAPDHrevII
 231 <400> SEQUENCE: 6
 232 gacctaatt aagatctcat atgttcacc agctatttgt ta 42
 235 <210> SEQ ID NO: 7
 236 <211> LENGTH: 37
 237 <212> TYPE: DNA
 238 <213> ORGANISM: Artificial Sequence
 240 <220> FEATURE:
 241 <223> OTHER INFORMATION: Description of Artificial Sequence: Oligonukleotid
 242 metAfw2
 244 <400> SEQUENCE: 7
 245 catggctcct tttagtcatt cttatattct aacgtag 37
 248 <210> SEQ ID NO: 8
 249 <211> LENGTH: 47
 250 <212> TYPE: DNA
 251 <213> ORGANISM: Artificial Sequence
 253 <220> FEATURE:
 254 <223> OTHER INFORMATION: Description of Artificial Sequence: Oligonukleotid
 255 metArev2
 257 <400> SEQUENCE: 8
 258 acgcgtatgc atccagagct cagtactatt aatccagcgt tggattc 47
 261 <210> SEQ ID NO: 9
 262 <211> LENGTH: 25
 263 <212> TYPE: DNA
 264 <213> ORGANISM: Artificial Sequence
 266 <220> FEATURE:
 267 <223> OTHER INFORMATION: Description of Artificial Sequence: Oligonukleotid
 268 metAmutfwl
 270 <400> SEQUENCE: 9

see p.5

RAW SEQUENCE LISTING
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DATE: 04/19/2005
TIME: 08:47:01

Input Set : A:\Co10217se.APP

Output Set: N:\CRF4\04192005\J530843.raw

need explanation
(see p. 6 for error explanation)

W--> 271 nnncagatca cgccatacga tctac 25
274 <210> SEQ ID NO: 10
275 <211> LENGTH: 23
276 <212> TYPE: DNA
277 <213> ORGANISM: Artificial Sequence
279 <220> FEATURE:
280 <223> OTHER INFORMATION: Description of Artificial Sequence: Oligonukleotid
281 metAmutrev1
283 <400> SEQUENCE: 10
284 gacgtaatag ttgagccagt tgg 23
287 <210> SEQ ID NO: 11
288 <211> LENGTH: 24
289 <212> TYPE: DNA
290 <213> ORGANISM: Artificial Sequence
292 <220> FEATURE:
293 <223> OTHER INFORMATION: Description of Artificial Sequence: Oligonukleotid
294 metAmutfw2
296 <400> SEQUENCE: 11
W--> 297 nnnggtttga ttgtaactgg tgcg *see p. 6* 24
300 <210> SEQ ID NO: 12
301 <211> LENGTH: 21
302 <212> TYPE: DNA
303 <213> ORGANISM: Artificial Sequence
305 <220> FEATURE:
306 <223> OTHER INFORMATION: Description of Artificial Sequence: Oligonukleotid
307 metAmutrev2
309 <400> SEQUENCE: 12
310 aaagttctga tctgaatat c 21

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/530,843DATE: 04/19/2005
TIME: 08:47:02Input Set : A:\Col0217se.APP
Output Set: N:\CRF4\04192005\J530843.raw*error explanation*
Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:9; N Pos. 1,2,3
Seq#:11; N Pos. 1,2,3

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23
Seq#:1; Line(s) 24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43
Seq#:1; Line(s) 44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63
Seq#:1; Line(s) 64,65,66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81,82,83
Seq#:1; Line(s) 84,85,86,87,88,89,90,91,92,93,94,95,96,97,98,99,100,101,102
Seq#:1; Line(s) 103,104,105,106,107,108,109,110,111,112,113,114,115,116
Seq#:2; Line(s) 117,118,119,120,121,122,123,124,125,126,127,128,129,130,131
Seq#:2; Line(s) 132,133,134,135,136,137,138,139,140,141,142,143,144,145,146
Seq#:2; Line(s) 147,148,149,150,151,152,153,154,155,156,157,158,159,160,161
Seq#:2; Line(s) 162,163,164,165,166,167,168,169,170,171,172,173,174,175,176
Seq#:2; Line(s) 177,178,179,180,181,182,183
Seq#:3; Line(s) 184,185,186,187,188,189,190,191,192,193,194,195,196
Seq#:4; Line(s) 197,198,199,200,201,202,203,204,205,206,207,208,209
Seq#:5; Line(s) 210,211,212,213,214,215,216,217,218,219,220,221,222
Seq#:6; Line(s) 223,224,225,226,227,228,229,230,231,232,233,234,235
Seq#:7; Line(s) 236,237,238,239,240,241,242,243,244,245,246,247,248
Seq#:8; Line(s) 249,250,251,252,253,254,255,256,257,258,259,260,261
Seq#:9; Line(s) 262,263,264,265,266,267,268,269,270,271,272,273,274
Seq#:10; Line(s) 275,276,277,278,279,280,281,282,283,284,285,286,287
Seq#:11; Line(s) 288,289,290,291,292,293,294,295,296,297,298,299,300
Seq#:12; Line(s) 301,302,303,304,305,306,307,308,309,310,311,312,313

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/530,843

DATE: 04/19/2005

TIME: 08:47:02

Input Set : A:\Co10217se.APP

Output Set: N:\CRF4\04192005\J530843.raw

L:9 M:270 C: Current Application Number differs, Replaced Application Number
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:113 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
L:271 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:9
L:271 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:9
L:271 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0
L:297 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:11
L:297 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:11
L:297 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0